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NEWS 1		Web [illegible] for STN Seminar Schedule - N. America
NEWS 2	[illegible]	KOREAN PATENTS NOW IN CAS PATENTS
NEWS 3	[illegible]	[illegible] Polymer Publishers now in STN
NEWS 4	[illegible]	CAS [illegible] - Multiple enhancements
NEWS 5	[illegible]	[illegible] Chemical Safety, Biology, and more
NEWS 6	[illegible]	BIOSIS Previews - [illegible] Update
NEWS 7	[illegible]	MEDLINE and [illegible] updates to offer more search options in STN
NEWS 8	[illegible]	[illegible] Journal of Synthetic Methods Enhanced with New Data
NEWS 9	[illegible]	DERWENT WORLD PATENTS INDEX: FAST TRACK RELEASE of Equivalent Patents
NEWS 10	Apr 01	Instant Access to FDA Regulatory Information with RISKWORLD
NEWS 11	Apr 01	CAS patent coverage expanded
NEWS 12	Apr 04	TEMALARE Now Available in Multi-STN Databases
NEWS 13	Apr 18	MEDLINE from 1958 to Date - Only on STN
NEWS 14	May	GENE SEQUIM ALERT: Similarity Current-Awareness Searching of Biosequences
NEWS 15	May 11	Textile Technology Digest (TEXTILETECH) now available on STN

NEWS EXPRESS FREE TRACK [illegible] FOR STN EXPRESS [illegible] WITH FILE USPAT2 NOW AVAILABLE

NEWS HOURS	STN [illegible] Hours Plus Help Desk Availability
NEWS LOGIN	[illegible] Information for Users
NEWS IPC8	[illegible] Enhanced with IPC 8
NEWS X.25	[illegible] and Terminal Dial Access Information
NEWS WWW	STN World Wide Web Site (XX.XX.XX)

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INDEX 'ALICALERT, ALIPINSIGHT, AGRICOLA, AIDSLINE, ANABSTR, AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGNL, ...' ENTERED AT [illegible]

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=> s 6-aminopenicillanic acid or 6-APA

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79 FILES HAVE ONE OR MORE ANSWERS, 79 FILES SEARCHED IN STNINDEX

L2 QUE ENZYM?

=> s d-phenylglycine? or phenylglycine?

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17 FILE KKF
5 FILE NAPRALERT
5 FILE PAPERCHEM2
22 FILE RAPRA
1 FILE RUSSCI
3 FILE USAN
21 FILE WSCA

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L[illegible] QUE (N-PHENYLGLYCINE) OR PHENYLGLYCINE.

=> s (sulfuric acid) or h2so4

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FILE 'WPINDEX' ACCESS NOT AUTHORIZED

FILE 'BIOTECHABS' ACCESS NOT AUTHORIZED

FILE 'BIOTECHDS2' ENTERED AT [illegible]

FILE 'WPIDS' ENTERED AT [illegible]
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=> d 1-6 ab,bib

L4 ANSWER 1 OF 6 WPIDS COPYRIGHT 2010 DERWENT INFORMATION LTD DUPLICATE

AB [illegible]
U [illegible] - Preparation of amino-substituted beta -lactam antibiotics comprises **enzyme**-catalysed reaction of amino- beta -lactams and amino-substituted acylated compounds, [illegible] solubilisation with an acid and treatment with a buffer to regenerate the **enzyme**.
DETAILED DESCRIPTION - Preparation of amino-substituted beta -lactam antibiotics comprises reacting the corresponding amino- beta -lactam nucleus and amino-substituted acylated side chain forming compounds [illegible] a covalently immobilized **enzyme** catalyst. The reaction [illegible] at pH [illegible] and a temperature of [illegible].

[illegible] the **enzyme**, [illegible] the **enzyme** is separated off and recovered by treating with a neutral buffer at [illegible]

Dwg. 0/0
USE - The technique is useful for the preparation of:
(1) **ampicillin** from 6-aminopenicillanic acid 6-APA and D-phenylglycine methyl ester or D-phenylglycinamide;
(2) cefalexin from 7-amino-3-deacetoxycephalosporanic acid 7-ADCA and D-phenylglycine methyl ester or D-phenylglycinamide;
(3) cefadroxil from 7-ADCA and D-phenylglycine methyl ester or D-phenylglycinamide;
(4) amoxicillin from 6-APA and D-4-hydroxyphenylglycine methyl ester or D-4-hydroxyphenylglycinamide;
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

AN [illegible]

Enzymatic [illegible]
[illegible], [illegible] ampicillin [illegible].
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

AB [illegible] A UPAB: [illegible]

NOVELTY - Recovery of beta -lactam antibiotic from mixture containing [illegible] D-phenylglycine [illegible] is new.

DETAILED DESCRIPTION - Recovery [illegible]:

[illegible] pH [illegible] D-phenylglycine [illegible] solution;

(b) recovering the solid beta -lactam antibiotic;

(c) subjecting the remaining liquid to temperature increase [illegible] deg. C with formation of solid D-phenylglycine;

(d) separating out the D-phenylglycine as solid; and

(e) partially recirculating the mother liquor.

ACTIVITY - Antibiotic.

USE - Used to recover approx. -b lactam antibiotics from mixtures containing antibiotic and D-phenylglycine (claimed).
May be used to recover antibiotics with a phenylglycine side-chain e.g. cefalexin, ampicillin, cefaclor, pivampicillin, bacampicillin, talampicillin and cefaloglycine. An enzyme reactor (1.5 l; 11-cm diameter) fitted with a 175 approx. mm mesh sieve bottom was filled with 300 g net-wet Assemblase (RTM; immobilized Escherichia coli penicillin acylase from E. coli ATCC 1105). A preparation [illegible] was filled with 6-APA [illegible], D-phenylglycine [illegible] g and water [illegible] ml at [illegible]. The stirrer in the enzyme reactor was switched on at [illegible]. The temperature was held at [illegible] deg. C. D-phenylglycine amide sulfate solution [illegible] was added at a constant rate over [illegible] minutes. The pH was approximately equal [illegible]. From [illegible] = 1[illegible] minutes onwards, the pH was maintained at [illegible] by titration with [illegible] sulfuric acid. At [illegible] = [illegible] minutes, the amount of ampicillin was maximum and the pH reduced to [illegible] by addition of [illegible] sulfuric acid. The enzyme [illegible] ampicillin [illegible] mmol, 6-APA [illegible] mmol, D-phenylglycine [illegible] mmol and D-phenylglycine [illegible] mmol. The ampicillin D-phenylglycine slurry was removed from the enzyme reactor via the sieve bottom by means of stirred filtration using a [illegible] stirrer positioned [illegible] cm above the sieve. Stirring was in an upward direction at approximately equal [illegible] rpm. The slurry separated from the reactor was filtered on a [illegible] glass filter. The wet cake was put aside and the mother liquor returned to the enzyme reactor. Stirred filtration followed by [illegible] filtration of the slurry resumed. The enzyme [illegible] was washed with ampicillin-D-phenylglycine [illegible] was [illegible] [illegible]

[illegible] ampicillin D-phenylglycine

ampicillin [illegible] D
-phenylglycine [illegible] enzyme [illegible].
[illegible] ampicillin
[illegible] 6-
APA [illegible] D-phenylglycine.
ADVANTAGE - Process is simple and can be applied on an industrial
scale. It avoids [illegible]
[illegible]
D-phenylglycine [illegible]. D-
phenylglycine [illegible] D-phenylglycine.
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] D-phenylglycine.
[illegible]
[illegible]
PA [illegible]
[illegible]
PI WO 9915682 A1 19990401 (199921 * EN 24p
RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL
OA PT SD SE SZ TG ZW
W: AL AM AT BA BB BG BR CA CN CU CZ EE GE HR HU ID IL IS JP KE KG KP KR LC LK LR LT LU LV MG MK MN MX NO NZ PL RO SG SI SK SL TR TT UA US UZ VN YU
NL [illegible]
AU [illegible]
EP [illegible]
R: AT BE IT NL
ADT WO 9915682 A1 WO 1998-NL539 19980918; NL 1007076 C2 NL 1997-1007076 19970918; AU 9891896 A AU 1998-91896 19980918; EP 1017699 A1 EP 1998-944138 19980918, WO 1998-NL539 19980918
FDT AU 9891896 A Based on WO 9915682; EP 1017699 A1 Based on WO 9915682
PRAI NL 1997-1007076 19970918

[illegible] ANSWER 3 OF 4 WPIDS COPYRIGHT 2001 DERWENT INFORMATION LTD
AB [illegible]
ACTIVITY - Beta -lactam antibiotic from mixture containing
[illegible] D-phenylglycine in solution is new.
[illegible]
(a) priming mixture to pH >= 8 at deg. C. but < [illegible]
such that D-phenylglycine remains in solution;
(b) recovering solid beta -lactam antibiotic;
(c) subjecting remaining liquid to concentration step in which
slurry
with solid beta -lactam antibiotic and solid D-
phenylglycine [illegible];
[illegible]
[illegible];
(e) separating D-phenylglycine as solid and;
[illegible] beta -lactam antibiotic present
in the mother liquor.
[illegible] - Antibiotic.
USE - Used to recover approx. -b lactam antibiotics from mixtures
containing antibiotic and D-phenylglycine [illegible].
May be used to prepare antibiotics with a phenylglycine
side-chain, e.g. cefalexin, ampicillin, [illegible], pivampicillin,
[illegible], cefadroxil and [illegible]. An enzyme
[illegible]; [illegible] -lactam [illegible] with a [illegible] side-chain, [illegible] -lactam [illegible] with a [illegible] side-chain, [illegible] penicillin acylase from E. coli ATCC [illegible]. A
[illegible]
[illegible] was [illegible] with 6-APA [illegible],

D-phenylglycine

enzyme

D-
phenylglycine

sulfuric acid.
ampicillin
sulfuric acid.
enzyme
ampicillin
6-APA
D-phenylglycine
D-
phenylglycine
ampicillin D-
phenylglycine
enzyme

stirrer positioned 1.5 cm above the sieve. Stirring was in an upward

ampicillin
D-phenylglycine
6
-APA,
D-phenylglycine
ampicillin
D-phenylglycine.

which was stirred. The wall temperature of the TFE was adjusted to 65
deg.
C and the pressure to 80 mbar. Circulation started at t = 0. The liquid
temperature was maintained at 40 deg. C. Evaporation was stopped at t =
257 minutes, by which time 5655 g concentrate had been collected. The
ampicillin D-phenylglycine
D-phenylglycine
D-phenylglycine
ampicillin.
ampicillin
ampicillin.
6-APA.
D-
phenylglycine
D-phenylglycine.

AN [illegible] WPIDS
DN [illegible]
TI Recovery of approximatelybeta-lactam antibiotic from solution of antibiotic and **D-phenylglycine**.
[illegible]
IN [illegible]
PA [illegible]
[illegible]

[illegible]

AB The preparation of **ampicillin** in which 6-**aminopenicillanic acid** (**6-APA**) is subjected to an **enzymatic** acylation reaction with a phenyl glycine derivative such as **phenylglycine** is claimed. The reaction is characterized by the total concentration of **6-APA** and **ampicillin** together being below 300 mM. The molar ratio of acylation agent to **6-APA** is below 2.0. By ensuring the concentration of **6-APA** in the dissolved form present in the reaction mixture is kept relatively low, a higher conversion can be achieved. The stirrability of the reaction mixture is also considerably improved. The **phenylglycine** derivative is metered in as a salt of **phenylglycine** amide (PGA) and an acid e.g. as a solution of D-PGA/0.5 **sulfuric acid** in water. The pH of the reaction mixture is lowered as soon as near-to-maximum conversion is achieved. (20pp)

AN [illegible] BIOTECHDS
TI Preparation of **ampicillin** with higher conversion and yield; by **enzyme** acylation of **6-aminopenicillanic acid** with a phenyl glycine derivative e.g. **phenylglycine**
AU Moody H M; Boetsen W H J
PA DSM
LO Heerlen, The Netherlands.
PI WO 9856946 17 Dec 1998
AI [illegible]
[illegible]
PRAI [illegible]
DT Patent
LA English
OS WPI: [illegible]

AN [illegible]
[illegible]

[illegible] **D-phenylglycine** [illegible] **enzymatic** [illegible], and the **enzyme**, solid **D-phenylglycine**, and beta-lactam [illegible]. After the **enzymatic** reaction, the obtd. mixt. (from which at least the **enzyme** and solid **D-phenylglycine** have been removed), is treated with an aldehyde at a pH of [illegible] and the Schiff base of **D-phenylglycine** amide is sepd. out.

ampicillin,

aminopenicillanic acid 6-APA ,

D-phenylglycine

D-phenylglycine

D-phenylglycine

D-phenylglycine

enzymatic

enzyme

D-phenylglycine

[illegible] the D-phenyl[redacted]ycine amide derivative is by s[redacted]
filtration or [illegible]reaction. If benzaldehyde is [illegible], excess aldehyde may
serve as an extraction solvent, although other solvents, or mixtures
[illegible]

[illegible] H2SO4, [illegible] ampicillin,
[illegible] 6
-aminopenicillanic acid, [illegible]-
naphthalenesulfonic acid, and [illegible]-amino-3-chloro-3-cephem-4-carboxylate.

[illegible]

AN [illegible]
TI Preparation of D-phenylglycine [illegible]
[illegible]
IN [illegible] enzyme [illegible]
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